



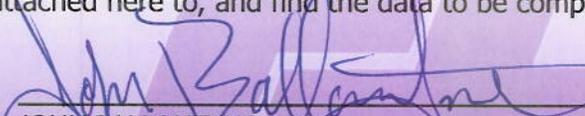
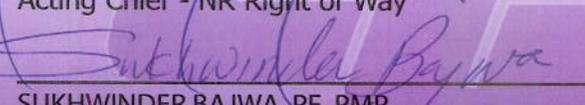
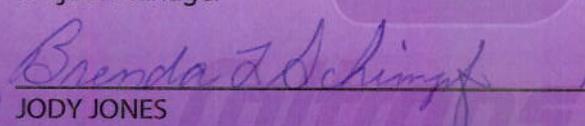
03-YUB-70 PM 15.5/16.4  
 Project Id. No. 0312000068  
 03-1E060K  
 November 2011

## PROJECT SCOPE SUMMARY REPORT (Scour-Replacement)

In Yuba County, Just North of Marysville,  
 Simmerly Slough Bridge (#16-0019)



I have reviewed the right of way information contained in this Project Scope Summary Report and the R/W Data Sheet attached here to, and find the data to be complete, current and accurate:

		11/14/2011
	JOHN BALLANTYNE Acting Chief - NR Right of Way	Date
APPROVAL RECOMMENDED:		11/17/2011
	SUKHWINDER BAJWA, PE, PMP Project Manager	Date
APPROVED BY:		11/23/2011
	JODY JONES District Director, District 3	Date

# REPORT SIGNATURE SHEET



This Project Scope Summary Report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

Harminder Basi  
Harminder Basi  
Registered Civil Engineer



11-09-2011  
Date

## PROJECT SCOPE SUMMARY REPORT FOR SIMMERLY SLOUGH BRIDGE (BRIDGE REPLACEMENT AND REALIGN APPROACH ROADS)

The project proposes to replace the existing bridge with a parallel bridge to the east and realign the approach roads. The existing bridge will be demolished after the new bridge is constructed. This Project Scope Summary Report (PSSR) is being prepared to identify scope and schedule for the programming the project.

**Capital Costs:** \$ 15,860,000

**Structures:** \$ 10,920,000  
**Roadway:** \$ 4,750,000  
**Right of Way:** \$ 190,000

**Funding Source:** 2012 SHOPP

**Type of Facility:** Conventional Highway

**Project Program:** 20.XX.201.111  
Bridge Scour  
Mitigation

**Anticipated Environmental Clearance Document:** Negative Declaration/  
Categorical Exclusion

**Construction Year:** 2015/16

**PM Limits:** 03-YUB-70  
PM 15.5/16.4

**Description:** Just North of Marysville  
at Simmerly Slough  
Bridge N. 16-0019.



Simmerly Slough Bridge is 531 feet in length and carries traffic on SR 70 Just north of Marysville.



Looking south from the west side of Simmerly Slough Bridge.

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## **1. Introduction**

This project proposes to replace Simmerly Slough Bridge on State Route (SR) 70 in Yuba County just north of Marysville at Post Mile 15.5/16.4 by constructing a parallel structure to the east of the existing bridge. Other proposed work includes realigning the approach roads at both ends of the bridge.

Temporary construction easements and utility relocation will be required.

The current capital cost estimate for this project is \$15,860,200. It is proposed to be programmed in the 2012 SHOPP under the 20.XX.201.111 Bridge Scour Mitigation program.

## **2. Purpose and Need**

This structure has been identified by District 3 Bridge Maintenance Design as scour critical. This structure also requires seismic-retrofit, rail upgrading, and widening to meet geometric standards. This project will construct a new bridge that complies with all of the current standards.

## **3. Alternatives**

*Alternative 1* – This project was initiated as a bridge scour mitigation project due to sub-scour critical structures. However, after field reviews and discussions, Structures Maintenance and Investigations (SMI) determined that the best course of action for this structure was a bridge replacement. This alternative will best meet the service requirements for this bridge over the next several years. It will be built to the current geometric standards and a guardrail will be provided from the edge of pavement and sidewalk for pedestrian safety. The structures cost estimate includes the demolition of the existing bridge. The total cost of this alternative is \$15,860,200 of which \$10,920,000 is structures cost.

*Alternative 2* – Install a suitable scour mitigation measure at Bents 13 and 14. Retrofit each bent cap with outriggers on large diameter CISS piles (see attached details). Work trestles will be required on each side of the existing bridge and falsework will be required under each bent cap. The cost reflects only the retrofit of the substructure. No upgrade is included. It is anticipated that the bridge can stay open during most of the work. The total cost for this alternative is \$6,070,200 of which \$5,430,000 is structures cost.

*Alternative 3* – No build. This alternative would not address the scour issues at the structure and could result in more expensive mitigation measures.

## **4. Existing Facility**

Simmerly Slough Bridge was built in 1957 and is a seventeen-span reinforced concrete (RC) continuous deck slab on RC (7) pile bents and open-end diaphragm abutments on concrete piles. Routine asphalt overlay, pot hole repairs and bridge rail maintenance have been done on the bridge.

The structure carries two lanes between the Marysville/Oroville area. The concept facility is a two-

lane conventional highway with passing lanes and the ultimate facility is a four-lane conventional highway.

**Roadway Geometric Information**

The existing roadway meets current standards for a two-lane conventional highway according to the Highway Design Manual. See Table 1 for more information.

**Table 1 - Roadway Geometric Information**

	Minimum Curve Radius	Through Traffic Lanes			Paved Shoulder Width		Median Width	Median Barrier
		No. of Lanes	Lane Width	Type (AC, PCC, AC over PCC)	Left	Right		Yes or No
Existing	1600	2	12 ft	AC over PCC	8	8	N/A	N/A
Proposed	2200	2	12 ft	AC	8	8	N/A	N/A
Standard	2000	2	12 ft	AC	8	8	N/A	N/A

**Structures Information**

**Table 2 - Structures Information**

The existing structure does not meet the geometric standards and the proposed structure will meet the geometric standards.

Structure	Width Between Curbs			Standards Met?		Vertical Clearance Over Main-Line			Existing Condition	
				Bridge Rail	Bridge Approach Rail				Bridge Approach Slab	AC Overlay
Number	Exist	Std	Prop	Yes or No		Exist	Std	Prop	Yes or No	
16-0019	28'	40'	40'	No	No	N/A	N/A	N/A	No	Yes

**Pedestrian and Bicyclist Information**

Currently there is 2-foot paved shoulder on each side of the travelled way and a 5-foot walkway on the east side of the bridge. The new bridge will provide 8-foot paved shoulders, 4-foot sidewalks on both sides of the bridge, and a concrete barrier separating the shoulder from the sidewalk and metal bridge railing.

**Traffic Data**

The daily peak-hour volume (both directions combined) from 2010 Caltrans data is 1,250 vehicles per hour and Annual Average Daily Traffic (AADT) is 13,300 vehicles per day.

The latest collision rate for this section of SR 70 for the three-year period from July 1, 2007 to June 30, 2010 is listed in Table 3.

**Table 3 – Collision History**

County	Route	PM	DIR	TOT	FAT	INJ	F+I	Actual			Average		
								FAT	F+I	TOTAL	FAT	F+I	TOTAL
Yuba	70	16.003 - 16.022	Both	0	0	0	0	0.00	0.00	0.00	0.021	0.26	0.60

During the three-year period there were zero collisions within the project limits with no fatalities. The table includes collision data for both northbound and southbound directions.

The accident rate is below the statewide average accident rate. This project will have no impact on the collision rate of this segment of SR 70.

## 5. Traffic Management Plan

Preliminary traffic impacts and mitigation for this project have been outlined in the attached Transportation Management Plan Data Sheet (see TMP Data Sheet, *Attachment D*). Costs associated with the traffic impact mitigation measures listed in the TMP Data Sheet have been included in the project estimate. A TMP for this project is required and should be requested at least three months prior to plans and estimate (P&E) completion.

The existing bridge will remain open in both directions of travel during construction. The replacement bridge will be constructed parallel to the east of existing bridge.

Portable changeable message signs (PCMS) will be required in each direction of traffic during construction of the replacement bridge and the realignment of the approach roads.

During traffic control operations, COZEEP should be present.

Pedestrian and bicycle traffic must be accommodated at all times during construction.

## 6. Environmental

### *Environmental Status*

In order to identify environmental issues, constraints, costs and resource needs, the Office of Environmental Support prepared a Mini-Preliminary Environmental Analysis Report (PEAR) for the project (see *Attachment E*). The anticipated Environmental Approval for this project is an Initial Study with a Mitigated Negative Declaration pursuant to the California Environmental Quality Act (CEQA) and Categorical Exclusion pursuant to the National Environmental Policy Act (NEPA). It will take 24 months to complete the environmental process.

### *Environmental Issues*

#### Visual Effects

This project will not have a negative impact to the visual environment.

## Cultural Resources

Initial reviews indicate that the Simmerly Slough Bridge was constructed in 1957 and has been determined Category 5 (ineligible for the National Register of Historic Places) in the Caltrans Statewide Bridge Inventory.

## Water Quality and Storm Water Runoff

Simmerly Slough typically flows year-round. Work will be performed during the non-rainy summer season and is estimated to be complete within one construction season. No permanent water quality impacts are expected as a result of the project. Construction Site Best Management Practices (BMPs) shall be selected to protect water bodies within or near the project limits from potential water pollution runoff from construction activities. These BMPs will be identified in the contractor prepared Storm Water Pollution Prevention Plan (SWPPP) or as contract line items.

Adherence to the conditions of the Caltrans Statewide National Pollutant Discharge Elimination System permits is required.

Coordination with the Central Valley Regional Water Quality Control Board regarding dewatering operations will be required during the plans, specifications and estimate (PS&E) phase.

## Hazardous Waste

An Initial Site Assessment (ISA) was prepared for this project which identified potential hazardous waste items (see *Attachment F*).

Asbestos Containing Materials (ACM) is present at hinges and without testing asbestos is assumed to be present in the bridge. As such, an asbestos survey of the bridge will be required. Once requested, it will take from 3 to 6 months to complete the investigation and final report.

Paint from white and yellow traffic stripes may contain hazardous levels of lead chromate. If the stripes are removed with pavement, a non-standard special provision (NSSP) will not be required; however, if the stripes are removed separately, an NSSP will be required. A lead compliance plan will be required.

Lead-contaminated soil may exist due to historical use of leaded gasoline, leaded airline fuels, and waste incineration. This also requires a lead compliance plan.

This project is proposing to disturb the existing paint systems on the structure. This also requires a lead compliance plan.

Wood removed from metal beam guard railing (MBGR) must be disposed in an approved treated wood waste facility. A health and safety plan for handling, storing, transporting and disposing treated wood waste is required. An NSSP is also required.

## Air Quality

This project is exempt from all air quality conformity analysis requirements.

## Biology

It is being assumed that two seasons of in-water work will be required to replace the bridge and pile driving will be conducted for the foundation piers. The bridge is over Jack Slough and connects to the Feather River approximately two river miles downstream. Jack Slough is a jurisdictional “water of the U.S.” and there is a riparian corridor along the banks of the slough. Areas adjacent to the riparian zone are comprised of agricultural lands mainly consisting of orchards, hay, row crops and rice. Based on aerial mapping, wetlands are present within and around the project area.

The Feather River is known habitat for several sensitive fish species including Central Valley spring-run Chinook salmon, Central Valley steelhead and Green Sturgeon. Due to the connectivity and proximity of Jack Slough to the Feather River, presence of these species is likely within the project area. Jack Slough is also potential habitat for giant garter snake (GGS).

Riparian areas in the project area could be habitat for the Western Yellow-Billed Cuckoo and there is the possibility of Swainson hawks nesting within this zone. If elderberry bushes are present in the area, Valley Elderberry Longhorn Beetle (VELB) could be present.

Seasonal wetland habitat along the slough could provide habitat for conservancy fairy shrimp, vernal pool fairy shrimp and vernal pool tadpole shrimp.

The proposed project will impact both federally and state listed species which will require Section 7 consultation with the U.S. Fish and Wildlife Service and National Marine Fisheries Service and a 2081 Incidental Take Permit and/or a 2080.1 Consistency Determination from the California Department of Fish and Game (CDFG).

The following permits will be required for this project: CDFG – 1600 Streambed Alteration Agreement, Central Valley Regional Water Quality Board – 401 Water Quality Certification and U.S. Army Corps of Engineers – 404 Clean Water Act.

Bridge demolition activities will be conducted pursuant to CDFG – 1600, Central Valley Regional Water Quality Board – 401 and U.S. Army Corps of Engineers – 404 Clean Water Act permits.

## **7. Right of Way**

A right of way data sheet was prepared for this project (see *Attachment G*). Temporary construction easements will be needed during construction for equipment staging and access.

There is an existing flood gate north of the existing bridge that will be relocated to the new approach road alignment. The flood gate is operated by the Marysville Levee District.

Simmerly Slough is not listed as a navigable waterway under the U.S. Coast Guard jurisdiction. The feasibility of providing a means of public access will be addressed in the project report during the design phase.

The right of way cost is very preliminary and may increase pending further investigation.

## **8. Other Agencies Involved**

Coordination with the California Department of Fish and Game, United States Fish and Wildlife Service, NOAA-Fisheries, Central Valley Regional Water Quality Control Board, U.S. Army Corps of Engineers (USACE), Department of Water Resources, Central Valley Flood Protection Board, County of Yuba, City of Marysville and Marysville Levee District will be required.

## **9. Other Considerations**

### Materials and/or Disposal Site Needs and Availability

Surplus material or grindings generated by the project will become the property of the contractor. AC grindings shall be handled and disposed of in accordance with local, state and federal laws and regulations.

### Consistency with Other Planning

USACE together with local sponsors desire to install 6 pressure relief wells within the State Right of Way as part of Phase 4 of the Marysville Ring Levee project. Partnering with USACE would facilitate mutually beneficial improvements which would proceed on a “fast track” due to USACE involvement.

### Recycling of AC

The contractor may at his or her discretion recycle the AC grindings.

## **10. Field Review**

District 3 Local Assistance	Harminder Basi	October 4, 2011
-----------------------------	----------------	-----------------

## **11. Project Reviews**

District 3 Bridge Maintenance	David Lamb	September 2011
Structures Liaison	Moe Amini	September 2011
HQ Program Advisor	Kevin Wall	September 2011

## **12. Proposed Funding/Project Support**

Funding source is the 2012 SHOPP from the 20.XX.201.111 Bridge Scour Mitigation program. See *Attachment I* for project schedule and support costs.

### **13. List of Project Contacts**

<b>Title</b>	<b>Name</b>
Project Manager	Winder Bajwa
Design Engineer	Isam Tabshouri
Project Engineer	Harminder Basi
District Bridge Maintenance Engineer	David Lamb
Maintenance Supervisor	Brian Toepfer
Structures Liaison Engineer	Moe Amini
Acting Division Chief of Right of Way	John Ballantyne
Senior Right of Way Agent	Lee Ann Lambirth
Environmental Senior	Tammy Massengale
Hazardous Waste	Jae-Hyuk Lee
Traffic Management Planning	Arshad Iqbal

### **14. List of Attachments**

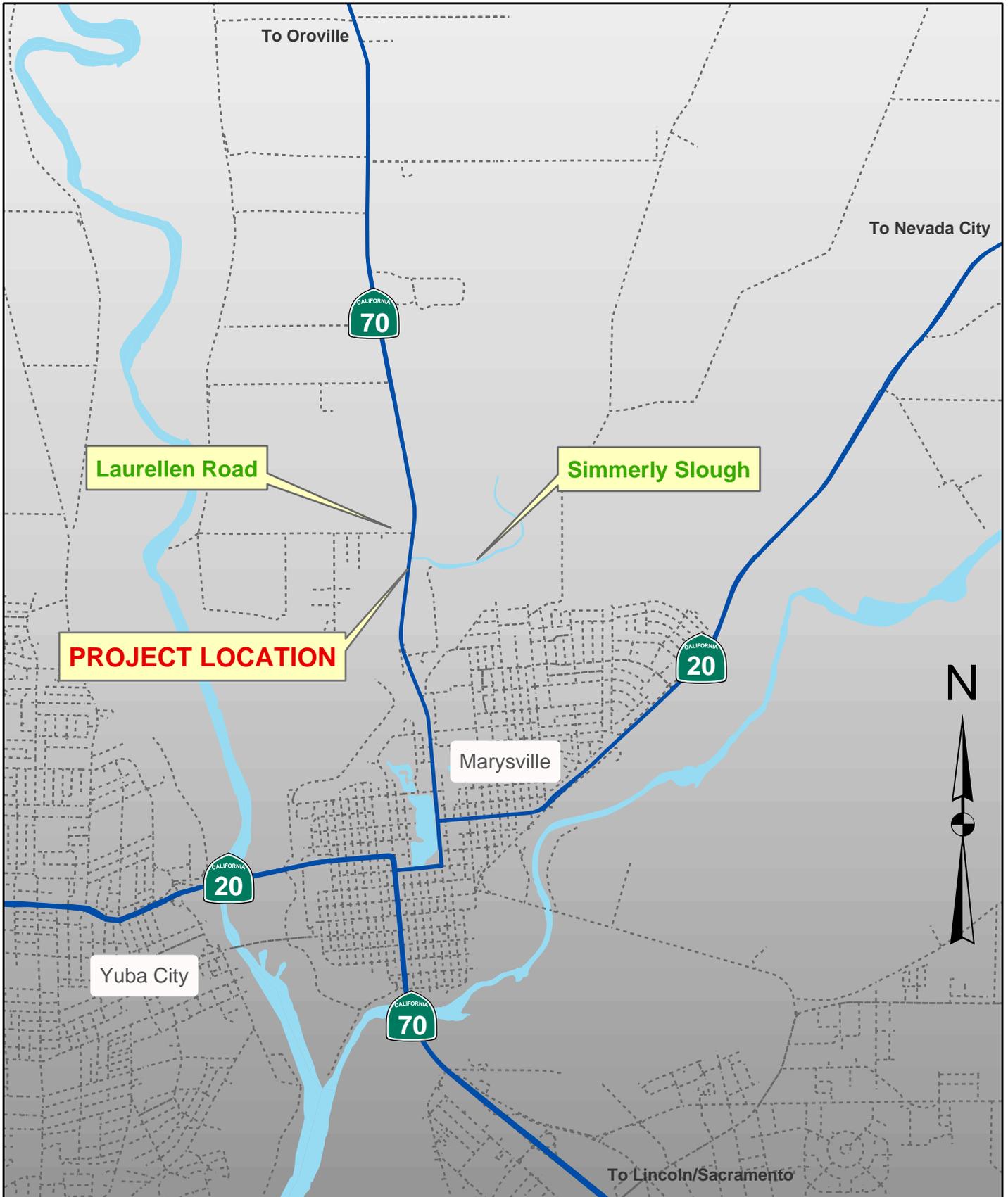
- A. Location Map
- B. Layout
- C. Advance Planning Study (APS) – including Typical Section
- D. Traffic Management Plan (TMP) Data Sheet
- E. Preliminary Environmental Analysis Report (PEAR)
- F. Initial Site Assessment (ISA)
- G. Right of Way Data Sheet
- H. Structural Section Recommendations
- I. Cost Estimate Breakdown
- J. Programming Sheet

**ATTACHMENT A**  
LOCATION MAP

# LOCATION MAP

## Yuba 70 - Simmerly Slough Bridge

YUB-70-PM 15.5/16.4 EA 1E060K



**ATTACHMENT B**  
LAYOUT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR  
 I. TABSHOURI  
 CHECKED BY  
 R. KOHAGURA  
 DESIGNED BY  
 R. KOHAGURA  
 REVISIONS  
 10/21/11  
 DATE REVISIONS  
 10/21/11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YUB	70	15.5/16.4		

H. BASI  
 REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE  
 FOR DESIGN ONLY  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 No. \_\_\_\_\_  
 Exp. \_\_\_\_\_  
 CIVIL  
 STATE OF CALIFORNIA



# LAYOUT

## L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR  
 I. TABSHOURI  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 R. KOHAGURA  
 REVISED BY  
 DATE REVISED  
 10/21/11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YUB	70	15.5/16.4		

H. BASI  
 REGISTERED CIVIL ENGINEER DATE

**INCOMPLETE PLANS FOR DESIGN**

PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 No. \_\_\_\_\_  
 Exp. \_\_\_\_\_  
 CIVIL  
 STATE OF CALIFORNIA

NOTES: 1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



**LAYOUT**

**L-2**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>Caltrans</b>	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
	I. TABSHOURI	CHECKED BY	R. KOHAGURA	10/21/11



NOTES: 1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

**INCOMPLETE FOR DESIGN**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YUB	70	15.5/16.4		

H. BASI  
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVED FOR THE STATE OF CALIFORNIA BY ITS OFFICERS THE AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
No. \_\_\_\_\_  
Exp. \_\_\_\_\_  
CIVIL  
STATE OF CALIFORNIA

# LAYOUT

## L-3

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES



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DGN FILE => 31e060ea03v8.dgn

CU 00000

EA 000000

LAST REVISION: DATE PLOTTED => 21-OCT-2011  
00-00-00 TIME PLOTTED => 13:05

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR  
 I. TABSHOURI  
 CHECKED BY  
 R. KOHAGURA  
 REVISIONS  
 REVISED BY  
 DATE  
 10/21/11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YUB	70	15.5/16.4		

H. BASI  
 REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE  
 FOR DESIGN ONLY  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 No. \_\_\_\_\_  
 Exp. \_\_\_\_\_  
 CIVIL  
 STATE OF CALIFORNIA

NOTES: 1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



**INCOMPLETE PLANS FOR DESIGN ONLY**



# LAYOUT

**L-4**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Gobans**  
 I. TABSHOURI  
 FUNCTIONAL SUPERVISOR  
 CHECKED BY  
 R. KOHAGURA  
 REVISIONS: 10/21/11  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	YUB	70	15.5/16.4		

H. BASI  
 REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE  
 INCOMPLETE PLANS FOR DESIGN ONLY  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 No. \_\_\_\_\_  
 Exp. \_\_\_\_\_  
 CIVIL  
 STATE OF CALIFORNIA



NOTES: 1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

# LAYOUT

## L-5

**ATTACHMENT C**  
ADVANCED PLANNING STUDY (APS)

## Memorandum

**To:** Winder Bajwa, Chief  
Project Manager  
District 03

**Date:** September 9, 2011

**File:** 03-YUB-070  
Simmerly Slough Bridge  
EA 03-0E060K

**Attn:**

**From:** GUDMUND SETBERG, Chief  
Bridge Design Branch 2  
Office of Structure Design North  
Division of Engineering Services, MS 9-4/8I



**Subject:** PID Level Planning Study

This memo has been prepared in response to the request for planning study information sent to Moe Amine during the month of August 2011. This memo and the attached drawings/details summarize the findings of our review of the structure included in project EA 03-0E060K.

Due to the limited time allowed for this study, the Office of Structure Design (OSD) was not able to perform in-depth review of the As-Builts, determine soil and seismic properties, or perform the seismic analysis needed to provide optimal retrofit or replacement strategies. To date OSD efforts include brief review of: As-Builts records, Structure Maintenance Bridge Records, draft seismic design spectrums and draft foundation information. Based on our findings, the following work is recommended:

Simmerly slough (16-0019) Retrofit:

- Alternative 1: Retrofit each bent cap with outriggers on large diameter CISS piles (see attached details). Work trestles will be required on each side of the existing bridge and falsework will be required under each bent cap. The cost reflects only the retrofit of the substructure. No upgrade of the superstructure is included. It is anticipated that the bridge can stay open during most of the work.
- Cost estimate for seismic retrofit: \$5,430,000

Simmerly Slough (16-0019) Replacement:

- Replace the existing bridge with a new precast/prestressed I-girder bridge on dropped bent caps founded on large diameter cast-in-steel-shell (CISS) piles. It is anticipated that the bridge will be closed and traffic detoured while the replacement work takes place.
- Cost estimate for replacement: \$10,920,000

The cost estimates shown above include 10% for TRO, 10% for mobilization and 40% for contingencies, but do not include traffic control or any District items. The project scope and cost estimates are built on a number of assumptions and should be considered preliminary.

If you have any questions or if you need additional information regarding these studies, please contact Gudmund Setberg at (916) 227-8282.

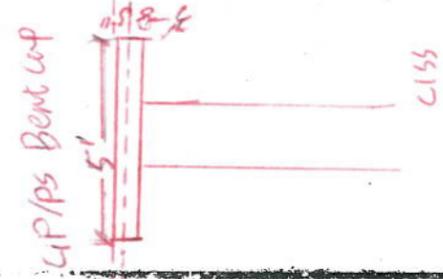
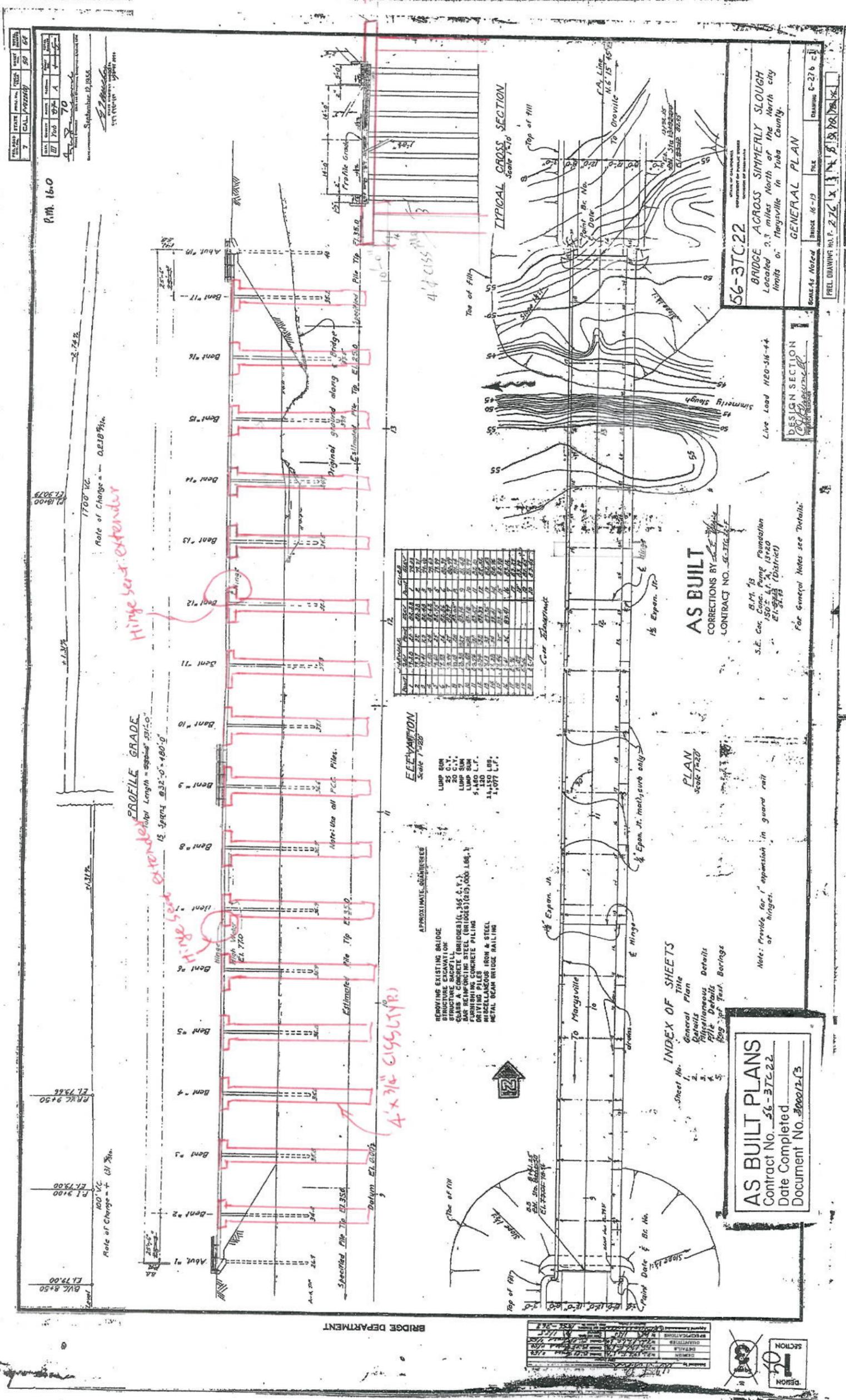
#### Attachment

- c: TOstrom – Office of Bridge Design North
- MAmini – Technical Liaison Engineer
- ETaddese – Project Coordination Engineer
- TFujioka – Office of Structure Maintenance and Investigation
- JBabcock – Office of Structure Construction
- JLee – Structure Project Engineer

Trench side of Bridge to construct.

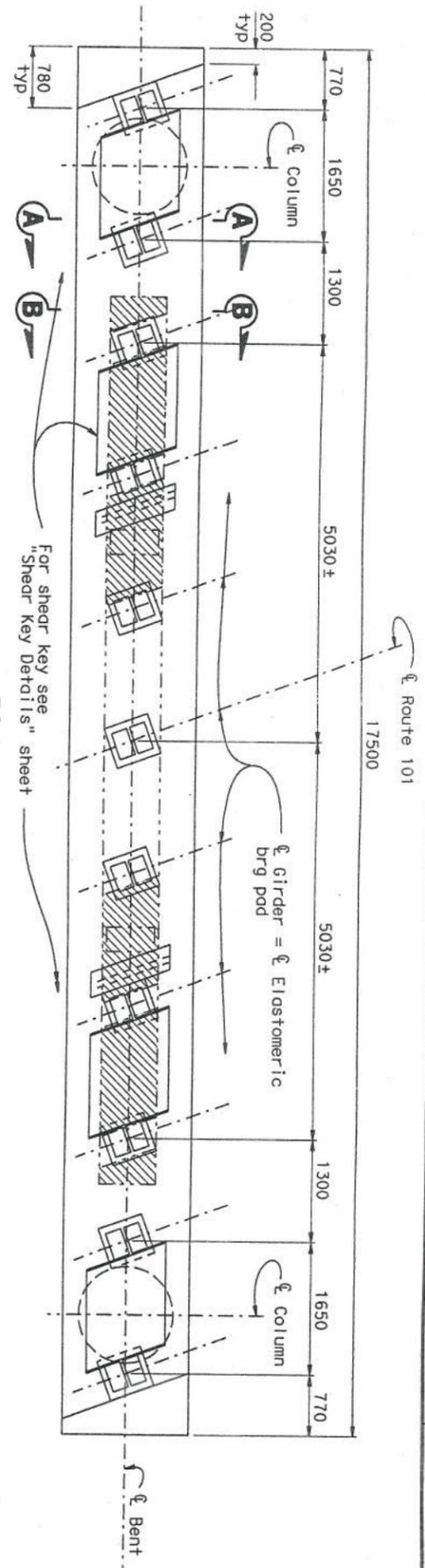
Retrofit - option 1

Note: For bent cap retrofit details See attached "Fe12 Creek" details

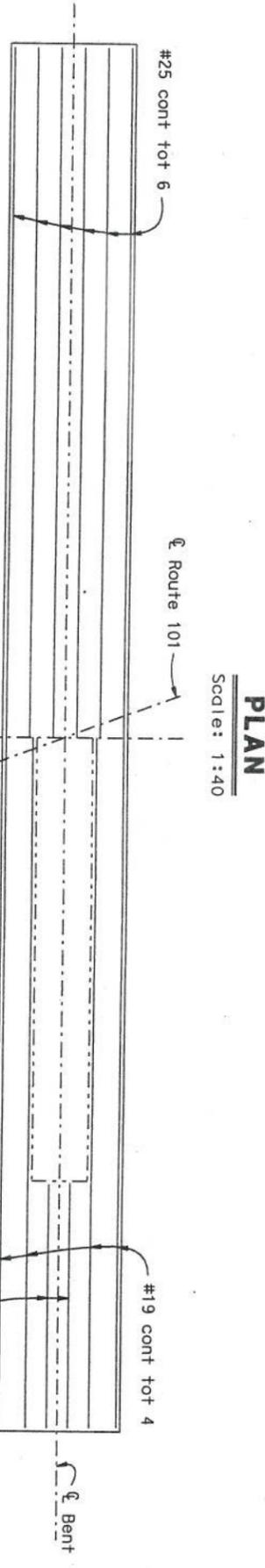


I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT MADE UNDER THE DIRECTION AND CONTROL OF THE ENGINEER IN CHARGE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS, AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS.

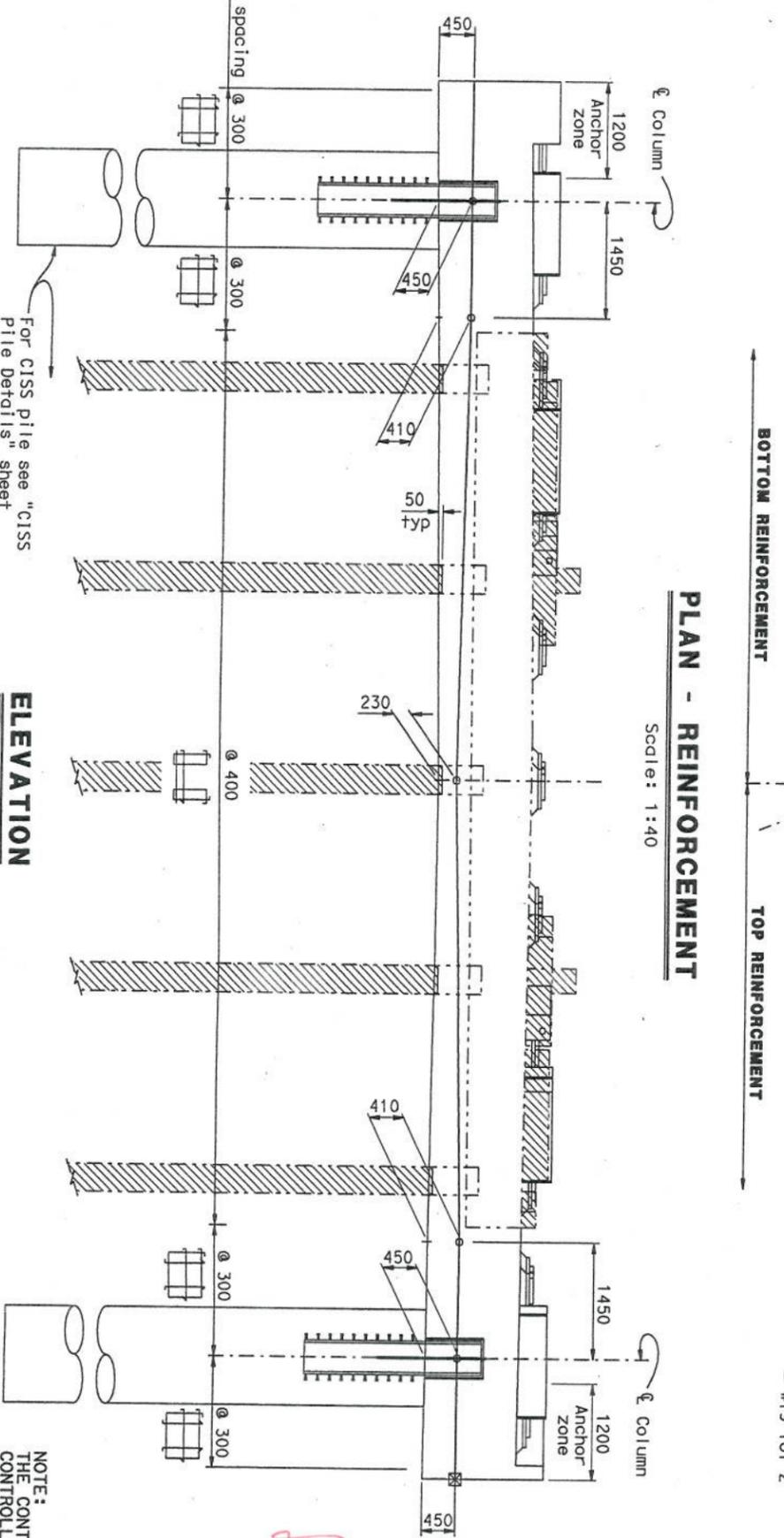
DATE: 11/11/13 SIGNATURE: [Signature]



**PLAN**  
Scale: 1:40



**SECTION A-A**  
Scale: 1:20



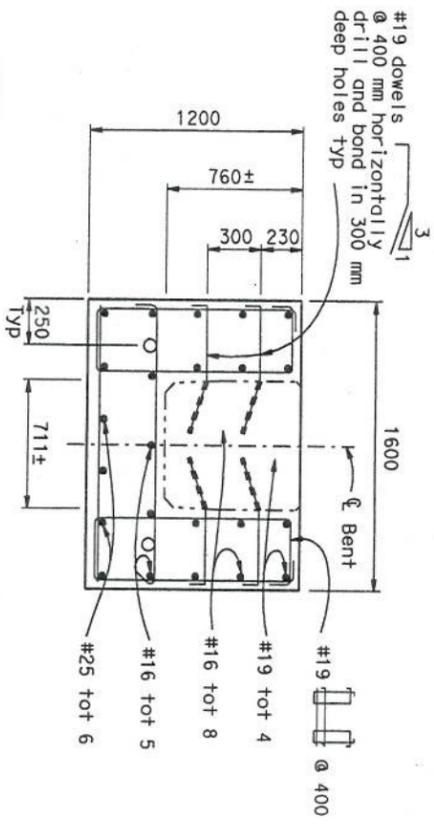
**PLAN - REINFORCEMENT**  
Scale: 1:40

**ELEVATION**  
Scale: 1:40

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL  
CONTROLLING FIELD DIMENSIONS  
BEFORE ORDERING OR FABRICATING  
ANY MATERIAL.

*Similar Job*

**SECTION B-B**  
Scale: 1:20



Notes:

- For "Prestressing Notes," see "Bent Details No. 1" sheet
  - For "Anchorage Zone Details," see "Bent Details No. 1" sheet
- Indicates Theoretical point of no movement
  - Indicates limits of existing concrete and piles removal
  - Indicates existing structure
  - Indicates new structure
  - Indicates P/S Location

ALL DIMENSIONS ARE IN  
MILLIMETERS UNLESS OTHERWISE SHOWN

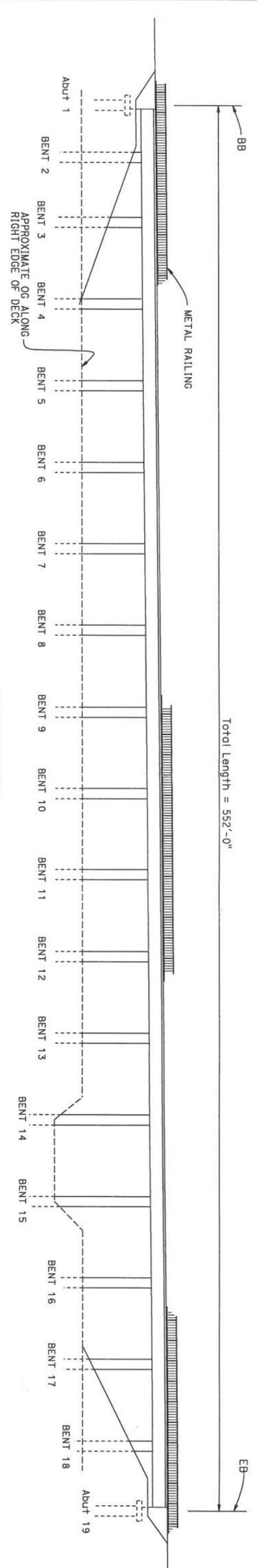
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF STRUCTURES  
STRUCTURE DESIGN 2

FELIZ CREEK BRIDGE (WIDEN)  
BENT LAYOUT

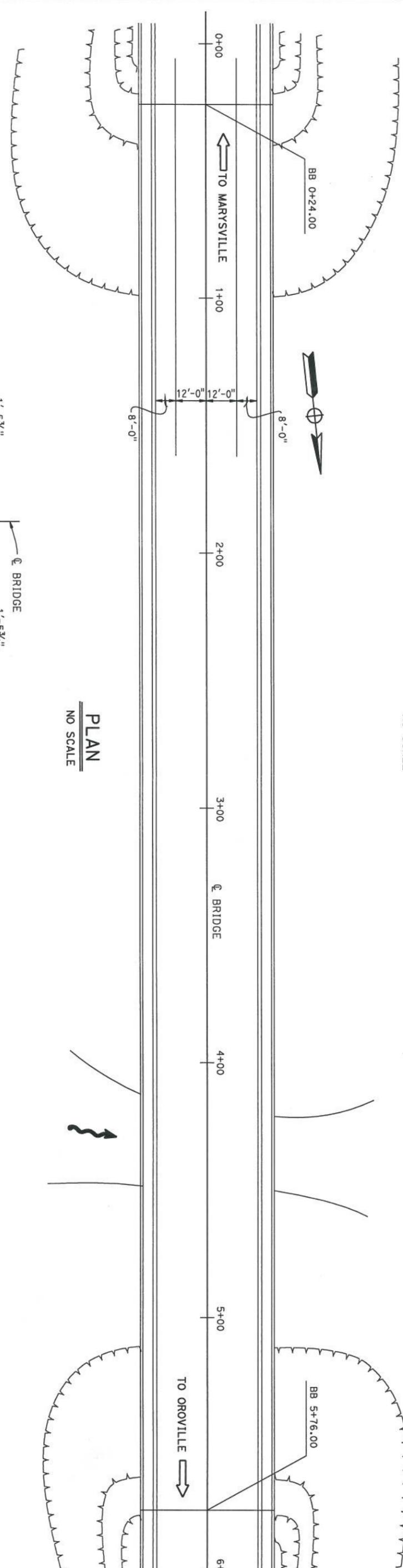
DESIGN	BY J. Zhong	CHECKED	T. Shi
DETAILS	BY Y. Nakoyama	CHECKED	T. Shi
QUANTITIES	BY K. Soh / D. Abellon	CHECKED	T. Shi / N. Nguyen

BRIDGE NO.	10-0003
KILOMETER POST	17.2
DISREGARD PRINTING BEARING EARLIER REVISION DATES	

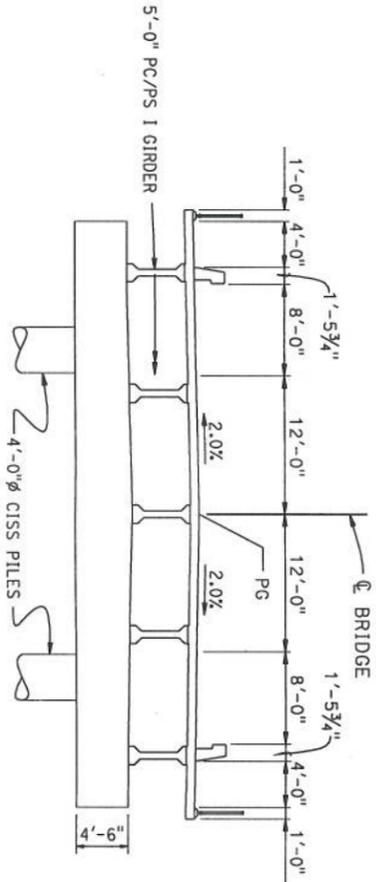
DIST	COUNTY	ROUTE	POST MILE
03	YUBA	70	X



**ELEVATION**  
NO SCALE



**PLAN**  
NO SCALE



**TYPICAL SECTION**  
1/8" = 1'-0"

- NOTES:
1. FOR MORE INFORMATION ON EXISTING BRIDGE, SEE ATTACHED SHEET
  2. The typical section shown is conceptual only. It is anticipated that 7 PC/PS I-girders will be needed for the superstructure and that 3-4 ft of CISS are required for the substructure

DESIGNED BY J. Lee	DATE 9-06-11
DRAWN BY E. Montevirgen	DATE 9-06-11
CHECKED BY X	DATE X
APPROVED X	DATE X

<b>STRUCTURE DESIGN BRANCH</b>	<b>PLANNING STUDY</b>
<b>2</b>	<b>SIMMERLY SLOUGH (REPLACE)</b>
UNIT: 3.577	BRIDGE No. X
SCALE: AS SHOWN	PROJECT No. & PHASE: X

**ATTACHMENT D**  
TRAFFIC MANAGEMENT PLAN (TMP) DATA SHEET

# Memorandum

*Flex your power!  
Be energy efficient!*

**To:** HARMINDER BASI  
Local Assistance  
District 3

**Date:** October 3, 2011

**File:** 03-1E060K  
03-YUB-70-PM 16.01  
Bridge Replacement

**From:** ARSHAD IQBAL  
TMP Coordinator  
District 3- Office of Transportation Management Planning

**Subject:** Transportation Management Plan (TMP) Data Sheet

## Background

- The purpose of this project is to replace Simmerly Slough Bridge (Bridge # 160019) at PM 16.01 on State Route 70 in Yuba County. This will be a two construction seasons project. The first season would involve constructing a new bridge parallel to the existing bridge (east side) and keeping the traffic in both directions on the existing bridge. The second season would involve switching the traffic on new bridge and demolishing the existing bridge. For Traffic volumes refer to **Table-1**.

<b>Table-1: Traffic Volumes (2010 Traffic Volumes on California State Highways)</b>			
<b>Location Description</b>	<b>Type of Roadway</b>	<b>Peak-Hour (both directions combined)</b>	<b>AADT</b>
03-Yub-70-PM 16.22 Laurellen Road	2 lane-2 way Expressway	1350 vph	12,700 vpd

- Truck traffic at this location on SR-70 averages 13.45% of the total AADT.

## Recommendations

- On Yuba 70 (PM 16.01), due to heavy traffic volumes, work will be performed night time only by providing at least one through traffic lane, not less than 12 feet in width, for use by both directions of travel (Reversing control).
- When reversing traffic control is in effect, Standard Plan Sheet T13, "Traffic Control System for Lane Closure on Two Lane Conventional Highways" shall be used.

- Whenever reversing traffic control is in place, advanced flaggers shall be used.
- The maximum length of any closure shall be limited to 1 mile.
- Traffic control operations shall not result in delays longer than 10 minutes.
- PCMS must be used during all lane and shoulder closures and at cross streets, if necessary.
- Access to cross streets must be maintained during construction, in accordance with traffic control standard plans or traffic handling plans.
- No lane closures, shoulder closures, or other traffic restrictions will be allowed on Special Days, designated legal holidays and the day preceding designated legal holidays; and when construction operations are not actively in progress.
- Work at this location may require the assistance of COZEEP, but a full time COZEEP presence is not anticipated.
- Coordination with projects within, or nearby the project limits will be required to avoid conflicts. Care should be taken in the timing of the schedules of each project to ensure that they are not constructed at the same time, or at a minimum to ensure that all projects are coordinated during construction to minimize any interference among the various projects.
- Lane closure charts will have to be developed prior to P&E.

### **Cost**

For estimating purposes, use below Traffic Management Plan (TMP) items:

- Traffic Control System and Maintain Traffic: \$2,500/traffic control day
- Portable Changeable Message Signs: \$125/traffic control day
- The cost for Public Information Office (PIO) is estimated at \$5,000 (lump sum) for this project. The PIO funds are paid for public outreach in the form of fliers, mailers, brochures and other uses as determined by the Public Information Officer.
- COZEEP is estimated at \$1,000 per working day and \$2,000 per working night whenever CHP involvement is needed during construction.
- If there is a change in the scope of the project or the order of work (schedule), please advise the TMP unit, as this may affect the TMP estimate.

### **P & E Requirement**

To complete a TMP for this project, please provide the following to the Office of Traffic Management Planning at least three months prior to P&E: project description, title sheet, typical cross sections, layout sheets, construction cost estimates, number of working days, project schedule, and a contact person.

**Needed Resources**

TMP office will need the following resources to complete our work:

Activity 160	80 hours
Activity 230	250 hours
Activity 255	80 hours
Activity 265	30 hours
Activity 270	70 hours
Activity 285	20 hours

**Attachments**

TMP Checklist

**ATTACHMENT E**  
MINI PRELIMINARY ENVIRONMENTAL ANALYSIS REPORT

## Mini-Preliminary Environmental Analysis Report

### Project Information

District 03 County YUB Route 70 Post Mile 16.01 EA 03-1E060

Project Title: Simmerly Slough Bridge Replacement

Project Manager Winder Bajwa Phone # 530-741-4432

Project Engineer Harminder Basi Phone # 530-741-5115

Environmental Branch Chief Tammy Massengale Phone # 530-741-4041

### Project Description

**Purpose and Need:** The existing bridge has sub-scour critical conditions that require the bridge to be replaced.

**Description of work:** The existing bridge will be replaced with a new pre-cast/prestressed I-girder bridge on dropped bent caps founded on large diameter cast-in-steel-shell (CISS) piles. It is anticipated that the bridge will be closed and traffic detoured while the replacement work takes place.

### Anticipated Environmental Approval

#### CEQA

Initial Study with a Mitigated Negative Declaration

#### NEPA

Categorical Exclusion

### Summary Statement

In order to identify environmental issues, constraints, costs and resource needs, a mini-PEAR (Preliminary Environmental Analysis Report) was prepared for the project. Potential construction staging areas and disposal/borrow sites will need to be identified in the PA&ED phase for environmental review. It is important to note that all technical studies have been deferred to the Capital phases of the project. All technical reviews were completed using data searches.

It is anticipated an Initial Study with a Mitigated Negative Declaration and a Categorical Exclusion will apply to this project. Based on existing workload and available resources, it is anticipated to take 24 months to complete the environmental process. If possible, Environmental Planning would like to receive the ESR no later than February of a given year in order to complete spring surveys.

### Special Considerations

**Biology:** It is being assumed that two season of in water work will be required to replace the bridge and pile driving will be conducted for the foundation piers. The bridge is over Jack Slough and connects to the Feather River approximately two river miles downstream. Jack Slough is a jurisdictional "water of the U.S." and there is a riparian corridor along the banks of the slough. Areas adjacent to the riparian zone are comprised of agricultural lands mainly consisting of orchards, hay, row crops and rice. Based on aerial mapping, wetlands are present within and around the project area.

The Feather River is known habitat for several sensitive fish species including Central Valley spring-run Chinook salmon, Central Valley steelhead and Green Sturgeon. Due to the connectivity and proximity of Jack Slough to the Feather River, presence of these species is likely within the project area. Jack Slough is also potential habitat for Giant garter snake (GGS).

Riparian areas in the project area could be habitat for the Western Yellow-Billed Cuckoo and there is the possibility of Swanson hawks to nest within this zone. If elderberry bushes are present in the area, Valley Elderberry Longhorn Beetle (VELB) could be present.

Seasonal wetland habitat along the slough could provide habitat for Conservancy fairy shrimp, vernal pool fairy shrimp and vernal pool tadpole shrimp.

The proposed project will impact both federally and state listed species which will require Section 7 consultation with the U.S. Fish and Wildlife Service and National Marine Fisheries Service and a 2081 Incidental Take Permit and/or a 2080.1 Consistency Determination from the California Department of Fish and Game (CDFG).

The following permits will be required for this project: CDFG – 1600 Streambed Alteration Agreement, Central Valley Regional Water Quality Board – 401 Water Quality Certification and U.S. Army Corps of Engineers – 404 Clean Water Act.

**Archaeology:** Initial reviews indicate that the Simmerly Slough Bridge was constructed in 1957 and has been determined Category 5 (ineligible for the National Register of Historic Places) in the Caltrans Statewide Bridge Inventory.

**Hazardous Waste:** An ISA was completed for this project. The following contaminants were identified: Aerially Deposited Lead, Asbestos Containing Materials, lead and chromium contained in the yellow traffic striping and lead based paint. A Site Investigation is required.

**Water Quality:** A water quality assessment will be prepared for this project.

**Air Quality:** This project is exempt from all air quality conformity analysis required per Table 2 of 40 Code of Federal Regulations (CFR) §93.126, subsection "Safety" ("Reconstructing Bridges"). A memo to file will be prepared during PA&ED.

**Noise:** This project is considered a Type III project and no Traffic Noise Analysis is required. A memo to file will be prepared during PA&ED.

**Visual Resources:** Due to the limited time constraints a visual preliminary assessment was not requested.

### **Disclaimer**

This report is not an environmental document. Due to resource constraints, only minimal information was obtained from specialists. The above recommendations are based on the project description provided in this report. The discussion and conclusions provided by this mini-PEAR are approximate and are based on an in-house review of records to estimate the potential for probable effects. The purpose of this report is to provide a preliminary level of environmental analysis to supplement the Project Initiation Document. Changes in project scope, alternatives, or environmental laws will require a re-evaluation of this report.

### **Prepared by:**

  
\_\_\_\_\_  
Tammy Massengale, Chief, Office of Environmental Support

Date: 10/14/11

### **Reviewed by:**

  
\_\_\_\_\_  
Winder Bajwa, Project Manager

Date: 10/17/11

## PEAR Environmental Commitments Cost Estimate

Dist.-Co.-Rte.-KP/PM: 03 YUB 70 16.01 EA: 03-1E060

**Project Description:** The existing bridge will be replaced with a new pre-cast/prestressed I-girder bridge on dropped bent caps founded on large diameter cast-in-steel-shell (CISS) piles. It is anticipated that the bridge will be closed and traffic detoured while the replacement work takes place.

**Person completing form/District Office:** Tammy Massengale, North Region  
Office of Environmental Support

Project Manager: Winder Bajwa Phone number: 530-741-5179

	Compensation/ Mitigation	Permit & Agreement
Fish & Game 1600 Agreement		\$ 4,500
Coastal Development Permit		
State Lands Agreement		
Section 401 RWQCB Permit		\$ 2,016
COE 404 Permit- Nationwide		
COE 404 Permit- Individual		
COE Section 10 Permit		
COE Section 9 Permit		
Other: GGS	\$ 20,000	
Oak Compensation		
Special landscaping		
Archaeological		
Biological		
Historical <sup>1</sup>		
Scenic resources		
Wetland/riparian	\$ 100,000	
<b>TOTAL (Enter zeros if no cost)</b>	<b>\$ 120,000</b>	<b>\$ 6,516</b>

## ATTACHMENT B - Resources by WBS Code

EA: 03-1E060

Description: Simmerly Slough Bridge Replacement

WBS Task Activity Code	Senior/ Coord	Biology	Cultural	Haz Waste	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
<b>Assigned Unit</b>	<b>183</b>	<b>183</b>	<b>183</b>	<b>349</b>	<b>349</b>	<b>349</b>	<b>183</b>	<b>183</b>	
<b>Project Management</b>									
100.10.05 – PA&ED Init. & Plng.					12				12
100.10.10 – PA&ED Exec. & Ctrl.	11	22	11				60		104
100.10.15 – PA&ED Closeout									-
100.10.20 – PA&ED Project Shelving									-
100.10.25 – PA&ED Project Unshelving									-
100.10.30 – PA&ED Update Admin Record									-
100.10.35 – PA&ED Cooperative Agreement									-
100.10.99 – PA&ED Other Proj. Mgmt. Products									-
100.15.05 – PS&E Init. & Plng.					12				12
100.15.10 – PS&E Exec. & Ctrl.	10	40	6				60		116
100.15.15 – PS&E Closeout									-
100.15.20 – PS&E Project Shelving									-
100.15.25 – PS&E Project Unshelving									-
100.15.30 – PS&E Update Admin Record									-
100.15.35 – PS&E Cooperative Agreement									-
100.15.99 – PS&E Other Proj. Mgmt. Products									-
100.20.05 – Const. Init. & Plng.					12				12
100.20.10 – Const. Exec. & Ctrl.	10	40	15				40		105
100.20.15 – Const. Closeout									-
100.20.20 – Const. Project Shelving									-
100.20.25 – Const. Project Unshelving									-
100.20.30 – Const. Update Admin Record									-
100.20.35 – Const. Cooperative Agreement									-
100.20.99 – Const. Other Proj. Mgmt. Products									-
100.25.05 – RW Init. & Plng.									-
100.25.10 – RW Exec. & Ctrl.									-
100.25.15 – RW Closeout									-
100.25.20 – RW Project Shelving									-
100.25.25 – RW Project Unshelving									-
100.25.30 – RW Update Admin Record									-
100.25.35 – RW Cooperative Agreement									-
100.25.50 – RW Ex. Coop. Agree. Relinquish									-
100.25.99 – RW Other Proj. Mgmt. Products									-
<b>Total Project Management</b>	<b>31</b>	<b>102</b>	<b>32</b>	<b>-</b>	<b>36</b>	<b>-</b>	<b>160</b>	<b>-</b>	<b>361</b>
<b>Preliminary Engineering Studies and Draft Project Report</b>									
160.05.05 – Approved PID Review	3				4				7
160.05.10 – Geotechnical Information Review									-
160.05.20 – Traffic Data & Forecasts Review									-
160.05.30 – Project Scope Review									-
160.05.99 – Other Updated Project Info Products									-
160.10.20 – Value Analysis									-
160.10.25 – Hydraulics/Hydrology Study									-
160.10.30 – Hwy Planting Design Concepts									-
160.10.40 – Updated Right of Way Data Sheets									-
160.10.99 – Other Engineering Studies									-
160.15.20 – Draft Project Report									-
160.15.25 – Draft PR Circ., Review & Approval	5				4				9
160.30.05 – Maps for ESR	5								5
160.30.10 – Surveys & Mapping for ESR	5								5
160.30.15 – Prop. Access Rights - Env/Eng Studies	5								5
160.40 – NEPA Delegation	5						2		7
<b>Total Pre. Eng. Studies &amp; Draft PR</b>	<b>28</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>38</b>
<b>Environmental Studies and Draft Environmental Document - Task Management Activities</b>									
165.05.05 – Project Information Review	3	40	4						47
165.05.10 – Pub & Agency Scoping Process	8								8
165.05.15 – Alternatives for Further Study	4								4

EA: 03-1E060

Description: Simmerly Slough Bridge Replacement

WBS Task Activity Code	Senior/Coord	Biology	Cultural	Haz Waste	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
<b>Assigned Unit</b>	<b>183</b>	<b>183</b>	<b>183</b>	<b>349</b>	<b>349</b>	<b>349</b>	<b>183</b>	<b>183</b>	
165.05.99 – Other Env Scoping Alt ID in PID	20								20
165.10.15 – CIA, Land Use & Growth Studies									-
165.10.20 – VIA & Scenic Resource Evaluation									-
165.10.25 – Noise Study						8			8
165.10.30 – Air Quality Study						8			8
165.10.35 – Water Quality Studies					150				150
165.10.40 – Energy Studies									-
165.10.45 – Summary Geotech Report									-
165.10.50 – Hazardous Waste PSI				80					80
165.10.55 – Draft RW Relocation Impact Doc.									-
165.10.60 – Loc. Hyd. & Floodplain Study Rpts.									-
165.10.65 – Paleontology Study									-
165.10.70 – Wild and Scenic Rivers Coordination									-
165.10.75 – Environmental Commitments Record									-
165.10.99 – Other Environmental Studies									-
165.15.05 – Biological Assessment		100							100
165.15.10 – Wetlands Study		22							22
165.15.15 – Resource Agency Permit Related Coord		60							60
165.15.20 – NES Report		60							60
165.15.99 – Other Biological Studies		60							60
165.20.05 – Archaeological Survey									-
165.20.05.05 – APE/Study Area Map(s)			12						12
165.20.05.10 – Native American Consultation			16						16
165.20.05.15 – Records & Literature Search			16						16
165.20.05.20 – Field Survey			17						17
165.20.05.25 – ASR			100						100
165.20.05.99 – Other Archy Survey Products									-
165.20.10 – Extended Phase I Archy Studies									-
165.20.10.05 – Native American Consultation									-
165.20.10.10 – Extended Phase I Proposal									-
165.20.10.15 – Extended Phase I Field Inv.									-
165.20.10.20 – Extended Phase I Mat. Analysis									-
165.20.10.25 – Extended Phase I Report									-
165.20.10.99 – Other Ext Phase I Archy Prod									-
165.20.15 – Phase II Archy Studies									-
165.20.15.05 – Native American Consultation			4						4
165.20.15.10 – Phase II Proposal			20						20
165.20.15.15 – Phase II Field Investigation			67						67
165.20.15.20 – Phase II Materials Analysis			50						50
165.20.15.25 – Phase II Report			27						27
165.20.15.99 – Other Ext Phase II Archy Study									-
165.20.20 – Hist & Architect Resource Studies									-
165.20.20.05 – Prelim APE/SAM for Arch.									-
165.20.20.10 – HRER - Archaeology									-
165.20.20.15 – HRER - Architecture									-
165.20.20.20 – Bridge Evaluation									-
165.20.20.99 – Other Hist and Arch Resource Prod									-
165.20.25 – Cultural Res. Comp. Cons. Docs.									-
165.20.25.05 – Final APE/Study Area Maps			8						8
165.20.25.10 – PRC 5024.5 Consultation			8						8
165.20.25.15 – HPSR/HRCR			60						60
165.20.25.20 – Finding of Effect (FOE)									-
165.20.25.25 – Archy Data Rec. Pln./Treat. Pln									-
165.20.25.30 – MOA									-
165.20.25.99 – Other CR Compliance Consult Prod									-
165.25.05 – DED Analysis	327								327
165.25.10 – Section 4(f) Evaluation									-
165.25.15 – CE/CE Determination	9								9
165.25.20 – Env. Quality Ctrl. & Other Reviews	6	40	9				30		85
165.25.25 – Approval to Circulate Resolution	3								3
165.25.30 – Environmental Coordination	255								255
165.25.99 – Other Draft ED Products									-
165.30 – NEPA Delegation	20								20

EA: 03-1E060

Description: Simmerly Slough Bridge Replacement

WBS Task Activity Code	Senior/Coord	Biology	Cultural	Haz Waste	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
<b>Assigned Unit</b>	<b>183</b>	<b>183</b>	<b>183</b>	<b>349</b>	<b>349</b>	<b>349</b>	<b>183</b>	<b>183</b>	
Total Environmental Studies & DED	655	382	418	80	150	16	30	-	1,731
<b>Permits, Agreements, and Route Adoptions during PA&amp;ED Component - Task Management Activities:</b>									
170.05 – Required Permits									-
170.10.05 – USACE Permit (404)		40							40
170.10.10 – US Forest Service Permit(s)									-
170.10.15 – US Coast Guard Permit									-
170.10.20 – DFG 1600 Agreement(s)		30							30
170.10.25 – Coastal Zone Development Permit									-
170.10.30 – Local Agency Concurrence/Permit									-
170.10.40 – Waste Discharge (NPDES) Permit(s)									-
170.10.45 – USFWS Approval		60							60
170.10.50 – RWQCB 401 Permit		40							40
170.10.60 – Environmental Commitments Record									-
170.10.95 – Other Permits		40							40
170.45 – MOU from TERO									-
170.10.55 – NEPA Delegation									-
Total Permits, Agreements & Route Adoptions	-	210	-	-	-	-	-	-	210
<b>Draft Environmental Document Circulation and Preferred Project Alternative Identification - Task Management Activities:</b>									
175.05.05 – Master Dist & Inv Lists	18								18
175.05.10 – Notices Regarding Hearing & DED	29								29
175.05.15 – DED Publication & Circulation									-
175.05.20 – Federal Consistency Det. (Coastal)									-
175.05.99 – Other DED Circulation Products									-
175.10.05 – Need for Public Hearing Det.									-
175.10.10 – Public Hearing Logistics									-
175.10.15 – Displays for Public Hearing									-
175.10.20 – 2 <sup>nd</sup> Not. Pub. Hear. & Avail. of DED									-
175.10.25 – Map Display & Pub. Hearing Plan									-
175.10.30 – Display Public Hearing Maps									-
175.10.35 – Public Hearing	3								3
175.10.40 – Record of Public Hearing									-
175.10.99 – Other Public Hearing Products									-
175.15 – Public Comment Res. & Corr.	23								23
175.20 – Project Preferred Alternative									-
175.25 – NEPA Delegation									-
Total DED & Preferred Proj. Alt. Identification	73	-	-	-	-	-	-	-	73
<b>Project Report and Final Environmental Document</b>									
180.05.05 – Updated Draft Project Report	6								6
180.05.10 – Approved Project Report	14				4				18
180.05.15 – Updated Storm Water Data Report									-
180.05.99 – Other Final Project Report Products									-
180.10.05 – Approved FED	15								15
180.10.05.05 – Draft FED Review									-
180.10.05.10 – Revised Draft FED									-
180.10.05.15 – Section 4(f) Evaluation									-
180.10.05.20 – Findings									-
180.10.05.25 – Statement of Overriding Consid.									-
180.10.05.30 – CEQA Certification									-
180.10.05.35 – FHWA Approval									-
180.10.05.40 – Section 106 Cons. & MOA									-
180.10.05.45 – Section 7 Consult		30							30
180.10.05.50 – Final Section 4(f) Statement									-
180.10.05.55 – Floodplain Only PAF									-
180.10.05.60 – Wetlands Only PAF									-
180.10.05.65 – Section 404 Compliance		30							30
180.10.05.70 – Mitigation Measures		40							40
180.10.10 – Public Dist of FED, Resp to Comments	14								14
180.10.99 – Other FED Products							15		15
180.15.05 – ROD (NEPA)									-
180.15.10 – NOD (CEQA)									-

EA: 03-1E060

Description: Simmerly Slough Bridge Replacement

WBS Task Activity Code	Senior/Coord	Biology	Cultural	Haz Waste	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
<b>Assigned Unit</b>	<b>183</b>	<b>183</b>	<b>183</b>	<b>349</b>	<b>349</b>	<b>349</b>	<b>183</b>	<b>183</b>	
180.15.20 – Environmental Commitments Record	6								6
180.15.99 – Other Completed ED Products									-
180.20 – NEPA Delegation	10								10
Total PR & FED	65	100	-	-	4	-	15	-	184
<b>Base Maps and Plan Sheets during PS&amp;E Development</b>									
185.05.05 – Project Concept Review					2				2
185.05.10 – Updated Project Information									-
185.05.99 – Other Updated Project Info Products									-
185.15 – Perform Preliminary Design									-
Total Base Maps and Plan Sheets during PS&E	-	-	-	-	2	-	-	-	2
<b>Right of Way Property Management and Excess Land</b>									
195.40.20 – Property Maint. & Rehab (Rentable)									-
195.40.25 – Prop. Maint. & Rehab (Non-Rentable)									-
195.40.30 – HW & Hazardous Materials									-
195.40.35 – Transfer of Prop to Clearance Status									-
195.40.99 – Other Property Mgmt Products									-
195.45.05 – Excess Lands Inventory									-
195.45.20 – Property Disposal up to \$15K									-
195.45.25 – Property Disposal from \$15K to \$500K									-
195.45.30 – Property Disposal over \$500K									-
195.45.99 – Other Excess Land Products									-
Total Base RW Property Mgmt and Excess Land	-	-	-	-	-	-	-	-	-
<b>Utility Coordination</b>									
200.15 – Approved Utility Relocation Plan									-
200.20 – Utility Relocation Package									-
Total Utility Coordination	-	-	-	-	-	-	-	-	-
<b>Permits, Agreements &amp; Route Adoptions during PS&amp;E Component - Task Management Activities</b>									
205.05 – Required Permits									-
205.10.05 – USACE Permit (404)		120							120
205.10.10 – US Forest Service Permit(s)									-
205.10.15 – US Coast Guard Permit									-
205.10.20 – DFG 1600 Agreement(s)		20							20
205.10.25 – Coastal Zone Development Permit									-
205.10.30 – Local Agency Concurrence/Permit									-
205.10.40 – Waste Discharge (NPDES) Permit(s)					28				28
205.10.45 – USFWS Approval		40							40
205.10.50 – RWQCB 401 Permit					8				8
205.10.60 – Updated ECR	6								6
205.10.95 – Other Permits									-
205.20.05 – Draft Freeway Agreement									-
205.20.10 – Draft Freeway Agreement Review									-
205.20.15 – Final Freeway Agreement									-
205.20.20 – Executed Freeway Agreement									-
205.25 – Agreement for Material Sites									-
205.40.99 – Other Route Adoption Products									-
205.45 – MOU from TERO									-
205.55 – NEPA Delegation			9						9
Total Agreements & Route Adoptions	6	180	9	-	36	-	-	-	231
<b>Right of Way Interests for Project Right of Way Certification</b>									
225.55.20 – Right of Way Clearance									-
Total RW Interests for Project RW Certification	-	-	-	-	-	-	-	-	-
<b>Draft PS&amp;E</b>									
230.05.45 – Noise Barrier Plans									-
230.05.65 – Water Pollution Control Plans					2				2
230.10.05 – Highway Planting Plans		20							20
230.10.15 – Plant List		20							20
230.30 – Draft Drainage Plans					2				2

EA: 03-1E060

Description: Simmerly Slough Bridge Replacement

WBS Task Activity Code	Senior/Coord	Biology	Cultural	Haz Waste	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
<b>Assigned Unit</b>	<b>183</b>	<b>183</b>	<b>183</b>	<b>349</b>	<b>349</b>	<b>349</b>	<b>183</b>	<b>183</b>	
230.35.10 – Highway Planting Specifications									-
230.35.35 – Water Pollution Control Specs					4				4
230.35.40 – Erosion Control Specifications					2				2
230.35.99 – Other Draft Specification Products									-
230.40.10 - Calc Hwy Planting Quantities & Est.									-
230.40.40 - Calc Erosion Ctrl Quantities & Est.					6				6
230.60.05 – Updated Storm Water Data Report					8				8
230.60.10 – Other PS&E Reviews & Update PR	6	2	4	4	2			8	26
230.99 – Other Draft PS&E Products									-
<b>Total Draft PS&amp;E</b>	<b>6</b>	<b>42</b>	<b>4</b>	<b>4</b>	<b>26</b>	<b>-</b>	<b>-</b>	<b>8</b>	<b>90</b>
<b>Environmental Impact Mitigation and Hazardous Waste Clean-up - Task Management Activities</b>									
235.05.05 – Historical Structures Mitigation									-
235.05.10 – Archaeological & Cultural Mitigation			58						58
235.05.15 – Biological Mitigation		60							60
235.05.20 – Environmental Mitigation R/W Work		30							30
235.05.25 – Paleontology Mitigation									-
235.05.99 – Other Env. Mitigation Products									-
235.10.05 – Right or Permit for HW Site Inv.									-
235.10.10 – HW Sites Survey									-
235.10.15 – Detailed HW Site Investigation									-
235.15 – HW Management Plan									-
235.20 – HW PS&E									-
235.25 – HW Clean-up									-
235.30 – Certificate of Sufficiency									-
235.35 – Long Term Mitigation Monitoring									-
235.40 – Updated Environmental Commit. (ECR)	6								6
235.45 – NEPA Delegation			4						4
<b>Total Env. Impact Mitigation &amp; HW Clean-up</b>	<b>6</b>	<b>90</b>	<b>62</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>158</b>
<b>Post Right of Way Certification Work</b>									
245.55.20 – Right of Way Clearance									-
<b>Total Post RW Clearance Work</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Final District PS&amp;E Package</b>									
255.05 – Circ. & Rev. Draft Dist PS&E	8	3		4	9			8	32
255.10.10 - Update Highway Planting PS&E									
255.10.25 - Updated Technical Reports			7						7
255.15 – Environmental Reevaluation	9				1				10
255.20.05 – Rev. Plans for Drafting Stds. Comp									-
255.40 – Resident Engineer's Pending File	5								5
255.45 – NEPA Delegation	5								5
<b>Total Final District PS&amp;E Package</b>	<b>27</b>	<b>3</b>	<b>7</b>	<b>4</b>	<b>10</b>	<b>-</b>	<b>-</b>	<b>8</b>	<b>59</b>
<b>Contract Bid Documents "Ready to List"</b>									
260.15.05 - Verify PS&E is Complete					8				
260.75 - Env Cert at RTL			2						2
<b>Total Contract Bid Documents "RTL"</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10</b>
<b>Construction Engineering and General Contract Administration</b>									
270.15.50 – Miscellaneous Stakes									-
270.20.05 – Resident Engineer File Review									-
270.20.10 – Proj. Plans, Spec. Prov. & Est. Rev.					2				2
270.20.45 – Cont. WPCP Review					2				2
270.20.50 – Technical Support					36			200	236
270.25.15 – Pre-Construction Meeting									-
270.30.10 – Inspection of Const. Work for Comp.					40				40
270.55 – Final Inspection & Acceptance Recom.									-
270.70 – Updated ECR		30							30
270.75 – Resource Agency Permit Ren. & Ext.		30						40	70
270.80 – Long Term Env Mit/Mont during Const		60							60
<b>Total Const Engineering &amp; Gen. Contract Admin.</b>	<b>-</b>	<b>120</b>	<b>-</b>	<b>-</b>	<b>80</b>	<b>-</b>	<b>-</b>	<b>240</b>	<b>440</b>

EA: 03-1E060

Description: Simmerly Slough Bridge Replacement

WBS Task Activity Code	Senior/ Coord	Biology	Cultural	Haz Waste	Storm Water	Noise/Air	Sup Svcs	Const. Liaison	Total
<b>Assigned Unit</b>	<b>183</b>	<b>183</b>	<b>183</b>	<b>349</b>	<b>349</b>	<b>349</b>	<b>183</b>	<b>183</b>	
<b>Construction Contract Change Orders</b>									
285.05.05 – Need for CCO Determination								16	16
285.10.15 – "Other" Functional Support					2				2
Total Construction CCOs	-	-	-	-	2	-	-	16	18
<b>Construction Contract Claims</b>									
290.35 – Technical Support					2			16	18
Total Construction Contract Claims	-	-	-	-	2	-	-	16	18
<b>Contract Acceptance, Final Construction Estimate and Final Report</b>									
295.35 – Certificate of Environmental Compliance	6							8	14
295.40 – Long Term Env Mit/Mont after CCA		40							40
Total Final Construction	6	40	-	-	-	-	-	8	54
<b>Total Project Hours</b>	<b>903</b>	<b>1,269</b>	<b>534</b>	<b>88</b>	<b>364</b>	<b>16</b>	<b>207</b>	<b>296</b>	<b>3,677</b>

**ATTACHMENT F**  
INITIAL SITE ASSESSMENT (ISA)

# Memorandum

**To:** Tammy Massengale, Chief  
NR Office of Environmental Support

**Date:** September 14, 2011

**File:** 03-Yub-70  
PM: 16.01  
Bridge Seismic  
Retrofit

**EA:** 03-1E060K  
**EFIS:** 0312000068

**From:** Jason Lee  
Office of Environmental Engineering Office – South (OEES)



**Subject: Initial Site Assessment (ISA)**

Per your request, OEES has performed an ISA for the above referenced project. The project will perform bridge seismic retrofit and scour mitigation of Simmerly Slough (Br No. 16-0019) along SR 70 in Yuba County. No new right of way will be required. All work will take place within existing R/W.

The following resource was reviewed: Bridge Inspection Records Information System (BIRIS)

Based on BIRIS and the nature of the project, the following hazardous material was identified in the bridge:

**1. Asbestos Containing Materials (ACM)**

ACM is present at hinges and without testing, asbestos is assumed to be present in the bridge. As such, an asbestos survey of the bridge will be required. Please include 80 hours under WBS 165.10 and \$8,500 in the project budget to cover our time and the consultants cost to complete the asbestos site investigation. Once requested, it will take from 3 to 6 months to complete the investigation and final report.

**2. Aerially Deposited Lead (ADL)**

ADL exists within our r/w due to historical use of leaded gasoline. Please use Standard Special Provision (SSP) 7-1.02K(6)(j)(iii) **Earth Material Containing Lead** in the PS&E and listing package.

**3. Yellow and white traffic stripe**

If yellow thermoplastic and/or paint striping is to be removed for this project and it is removed as an independent, then SSP 15-305 removal of yellow thermoplastic or paint striping is required. If it is removed with the entire road section then no SSP is required.

**4. Lead Based Paint**

If this project is proposed to disturb the existing paint systems on the structure, it is required to include the Standard Special Provision 15-025, Existing Paint Systems.

Thank you for your effort and time. If there are any significant changes to the proposed project, please contact OEES as soon as possible so the impact of the changes and further action, if any, can be assessed. If you have any questions, please call me at (530) 741-4494.

cc: File  
Harminder Basi – Project Engineer

**ATTACHMENT G**  
RIGHT OF WAY DATA SHEET

## Memorandum

*Flex your power!  
Be energy efficient!*

**To:** John Hoole  
District Local Assistance Engineer  
Department of Transportation, District 3

**Date:** September 7, 2011  
**E.A.:** 1E060  
**PN:** 0312000068  
**File:** 03-YUB-70-PM 16.0

Attention Harminder Basi  
Project Engineer

Replace Bridge (Scour)

**From:** JOHN BALLANTYNE  
Acting Chief  
North Region Right of Way  
Marysville

Current Estimated Right of Way Costs

We have completed an estimate of the right of way costs for the above referenced project based on information received from you on September 1, 2011 .

Right of Way requests a minimum of 15 months lead time in order to complete the certification process in a timely manner.

Attachments:  
Right of Way Data Sheet

cc. Winder Bajwa

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**RIGHT OF WAY DATA SHEET**



Date: September 7, 2011  
 E.A. 1E060  
 PN: 0312000068  
 File: 03-YUB-70-PM 16.0

1. Right of Way Cost Estimate:

	Current Value Future Use	Escalation Rate	Escalated Value
A. Total Acquisition Cost	\$9,375	5%	\$11,434
B. Mitigation acquisition & credits	\$120,000	5%	\$146,349
C. Project Development Permit Fees	\$6,516	5%	\$7,947
<b>Subtotal</b>	<b>\$135,891</b>		<b>\$165,729</b>
D. Utility Relocation (State Share) (Owner's share: _____)	\$20,000	5%	\$24,392
E. Relocation Assistance (RAP)	\$0		\$0
F. Clearance/Demolition	\$0		\$0
G. Title & Escrow	\$0		\$0
H. Total Estimated Right of Way Cost	\$155,891	<b>Rounded</b>	<b>\$190,000</b>
I. Construction Contract Work	\$0		

2. Current Date of Right of Way Certification October 1, 2015

3. Parcel Data:

Type	Dual/Appr	Utilities	RR Involvements
X	0	U4 - 1	None
A	0	- 2	C&M Agrmt
B	3	- 3	Svc Contract
C	0	- 4	Easements
D	0	U5 - 7	Rights of Entry
		- 8	Clauses
<b>Total</b>	<b>3</b>	- 9	
<b>Areas:</b>			<b>Misc. R/W Work</b>
R/W:	N/A		RAP Displ
Excess:	N/A	No. Excess Pcls: 0	Clear/Demo
Mitigation:	N/A		Const Permits
			Condemnation
			USA Involvement

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**RIGHT OF WAY DATA SHEET**

---

4. Are there any major items of construction contract work?

Yes \_\_\_\_\_ No X

None have been identified.

5. Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.)

There may be a need for 3 temporary construction easements on agricultural lands. Mitigation and environmental permit fees have been included in this estimate.

6. Are any properties acquired for this project expected to be rented, leased, or sold?

Yes \_\_\_\_\_ No X

7. Is there an effect on assessed valuation?

No X

Yes \_\_\_\_\_ Not Significant \_\_\_\_\_

8. Are utility facilities or rights of way affected?

Yes \_\_\_\_\_ No X

At this time, the Project Engineer states there are no utility conflicts or relocations in connection with this project. However the Project Engineer has said there will be Medium Barrier Guardrail (MBGR) work. Due to the nature of the proposed MBGR work, potholing money will be added to this estimate. The Project Engineer should get a variance letter from HQ stating they will work around any discovered utilities.

9. Are railroad facilities or rights of way affected?

Yes \_\_\_\_\_ No X

10. Were any previously unidentified sites with hazardous waste and/or material found?

Yes \_\_\_\_\_ None Evident X

11. Are RAP displacements required?

Yes \_\_\_\_\_ No X

No. of single family           

No. of business/nonprofit           

No. of multi-family           

No. of farms           

Based on Draft/Final Relocation Impact Statement/Study dated N/A  
it is anticipated that sufficient replacement housing (will/will not) be available without Last Resort Housing.

12. Are there material borrow and/or disposal sites required?

Yes \_\_\_\_\_ No X

13. Are there potential relinquishments and/or abandonments?

Yes \_\_\_\_\_ No X

14. Are there any existing and/or potential airspace sites?

Yes \_\_\_\_\_ No X

15. Indicate the anticipated Right of Way schedule and lead time requirements.

Right of Way requests a minimum of 15 months lead time in order to complete the certification process in a timely manner.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**RIGHT OF WAY DATA SHEET**

16. Is it anticipated that Caltrans will perform all Right of Way work?  
Yes   X   No       

17. Assumptions and Limiting Conditions:

- 17.1 The mapping did not provide sufficient detail to determine the limits of the right of way required.
- 17.2 The transportation facilities have not been sufficiently designed so our estimator could determine the damages to any of the remainder parcels affected by the project.
- 17.3 Additional right of way requirements are anticipated, but are not defined due to the preliminary nature of the early design requirements.
- 17.4 Design will secure any necessary encroachment permits from local agencies.
- 17.5 This estimate is based on a replacement alternative.
- 17.6 This estimate assumes that mitigation will be acquired by credits and not by acquisition of new parcels. If parcels are required, resources, timeline and capital costs will need to be revised.

Evaluation Prepared By:

Right of Way:

  
MARIA E. MENDOZA

Date

10/17/11

Reviewed By:

RW Planning & Management:

  
PAUL SLOULIN

Date

10/17/11

I have personally reviewed this Right of Way Data Sheet and all supporting information. I certify that the probable Highest and Best Use, estimated values, escalation rates, and assumptions are reasonable and proper, subject to the limiting conditions set forth, and I find this Data Sheet to be complete and current.  
RECOMMENDED FOR APPROVAL

APPROVED:



LEE ANN LAMBIRTH,  
Senior Right of Way Agent  
Project Coordination  
Marysville

Date

10/17/11



JOHN L. BALLANTYNE  
Acting Chief, North Region Right of Way  
Marysville

Date

10/17/11

**ATTACHMENT H**  
STRUCTURAL SECTION BREAKDOWN

**MEMORANDUM**

**To:** MR. HARMINDER BASI, PE  
Advance Planning

**Date:** October 14, 2011  
**File:** 03-YUB-70  
03-1E060K  
03 2000 0680

**From:** TIM GREUTERT  
District Materials Engineer  
North Region – Materials Laboratory

**Subject:** **Structural Section Recommendations**

Draft

As requested in your Memorandum to Julia Rockenstein dated October 12, 2011, a structural section recommendation has been made for the above referenced project. This is preliminary and further investigation may be required during the design phase. The following assumptions have been made:

R-Value = 5 (Assumed)  
TI<sub>20</sub> = 11.5 (From Traffic)

### **STRUCTURAL SECTION RECOMMENDATIONS**

#### **MAINLINE – Existing**

Remove any existing OGFC. Conduct a field review and locate areas of severe failure identified by loose and spalling pavement. Dig out, repair the identified areas, and seal all cracks wider than 0.25". Overlay existing pavement with the following:

0.10' RHMA-O  
0.15' HMA-A  
0.25' Total

#### **MAINLINE AND SHOULDER – New Structural Section**

0.10' RHMA-O  
0.60' HMA-A  
2.25' AB (Class 2)  
2.95' Total

October 14, 2011

Page 2

03-1E060K

## **MATERIAL SPECIFICATIONS**

Rubberized Hot Mix Asphalt –Type O (RHMA-O) - shall conform to section 39 of the Standard Specifications and the Special Provisions.

Hot Mix Asphalt – Type A (HMA-A) – shall conform to Section 39 of the Standard Specifications and the Special Provisions.

Asphalt Binder – Asphalt binder used for HMA and RHMA-O shall be grade PG 64-16 and shall conform to sections 39 and 92 of the Standard Specifications.

Paint Binder – Shall conform to sections 39, 92 and 94 of the Standard Specifications.

Aggregate Base (AB) – Class 2 – shall conform to section 26 of the Standard Specifications

If you have any questions please contact Julia Rockenstein at 530-741-5176 or myself at 530-741-5378.

c: File

Draft

**ATTACHMENT I**  
COST ESTIMATE BRAKDOWN

**PRELIMINARY COST ESTIMATE SUMMARY**

03-YUB-70-PM 15.5/16.4

03-1E060K

**ALTERNATIVE 2**

**PROJECT DESCRIPTION:**

**Simmerly Slough bridge is carries traffic on SR 70 just north of Marysville**  
 Bridge Replacement

**SUMMARY OF PROJECT COST ESTIMATE**

TOTAL ROADWAY ITEMS	\$ 4,750,000
TOTAL STRUCTURE ITEMS	\$ 10,920,000
<b>SUBTOTAL CONSTRUCTION COSTS</b>	<b>\$ 15,670,000</b>
TOTAL RIGHT OF WAY ITEMS	\$ 190,000
<b>TOTAL PROJECT CAPITAL OUTLAY COSTS</b>	<b>\$ 15,860,000</b>

Reviewed by District  
 Program Manager

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Date

Approved by  
 Project Manager

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Date

**I. ROADWAY ITEMS**

	<i>Quantity</i>	<i>Unit</i>	<i>Unit Price</i>	<i>Item Cost</i>	<i>Section Cost</i>
<b>Section 1: Earthwork</b>					
Retaining Wall			\$ -	\$ -	
Roadway Excavation			\$ -	\$ -	
Imported Borrow	101,400	TON	\$ 12	\$ 1,216,800	
Clearing & Grubbing			\$ -	\$ -	
Develop Water Supply			\$ -	\$ -	

**Subtotal Earthwork** **\$ 1,217,000**

**Section 2: Pavement Structural Section**

Hot Mixed Asphalt (Type )	6,600	TON	\$ 76	\$ 501,600
Aggregate Base	12,600	CY	\$ 30	\$ 378,000
Rubberized Hot Mix Asphalt (Type G)		TON	\$ -	\$ -
Rubberized Hot Mix Asphalt (Type O)	1,100	TON	\$ 90	\$ 99,000
Seal Random Cracks		LNMI	\$ -	\$ -
Digouts (Rmv/Rplc Localized Failures)		LS	\$ -	\$ -
HMA Dike Type E			\$ -	\$ -
Overside Drain			\$ -	\$ -

**Subtotal Pavement Structural Sections** \$ 979,000

**Section 3: Drainage**

Large Drainage Facilities			\$ -	\$ -
Storm Drains			\$ -	\$ -
Pumping Plants			\$ -	\$ -
Extend Reinforced Box Culverts			\$ -	\$ -
Replace Culverts			\$ -	\$ -
Rock Slope Protection			\$ -	\$ -

**Subtotal Drainage** \$ -

*Quantity      Unit      Unit Price      Item Cost      Section Cost*

**Section 4: Specialty Items**

Prepare SWPPP	1	LS	\$ 50,000	\$ 50,000
Ground-in Rumble Strips		LS	\$ 150,000	\$ -
Remove Metal Beam Guard Railing		LF	\$ -	\$ -
Metal Beam Guard Railing (Steel Post)	7,500	LF	\$ 22	\$ 165,000
Adjust Metal Beam Guard Railing		LF	\$ -	\$ -
ADA Upgrades		LS	\$ -	\$ -
Resident Engineer Office Space	1	LS	\$ 50,000	\$ 50,000
Construction Site BMPs	1	LS	\$ 200,000	\$ 200,000
Lead Compliance Plan	1	LS	\$ 2,000	\$ 2,000
Environmental Mitigation		LS	\$ -	\$ -
Environmental Permits		LS	\$ -	\$ -

**Subtotal Specialty Items** \$ 467,000

**Section 5: Traffic Items**

Traffic Delineation Items	1	LS	\$ 20,000	\$ 20,000
Temporary Traffic Delineation		LS	\$ -	\$ -
Traffic Electrical		LS	\$ -	\$ -
Roadside Signs (Const Area)	1	LS	\$ 25,000	\$ 25,000
Portable Changeable Message Sign	1	LS	\$ 60,000	\$ 60,000
COZEPP	10	WD	\$ 1,000	\$ 10,000
TMP-Public Awareness	1	LS	\$ 5,000	\$ 5,000
Traffic Control	20	WD	\$ 2,500	\$ 50,000
Maintain Traffic	1	LS	\$ 10,000	\$ 10,000

**Subtotal Traffic Items** \$ 180,000

**SUBTOTAL SECTIONS 1 THROUGH 5** \$ 2,843,000

**Section 6: Minor**

*Section Cost*

$$\begin{array}{r} \$ 2,843,000 \\ \text{(Subtotal Sections 1-5)} \end{array} \times \begin{array}{|c|} \hline 0.15 \\ \hline \end{array} = \begin{array}{|c|} \hline \$ 427,000 \\ \hline \end{array}$$

**Total Minor Items** \$ 427,000

**Section 7: Roadway Mobilization**

$$\begin{array}{r} \$ 3,270,000 \\ \text{(Subtotal Sections 1-6)} \end{array} \times \begin{array}{|c|} \hline 0.10 \\ \hline \end{array} = \begin{array}{|c|} \hline \$ 327,000 \\ \hline \end{array}$$

**Total Roadway Mobilization** \$ 327,000

**Section 8: Roadway Additions**

Supplemental Work

$$\begin{array}{r} \$ 3,270,000 \\ \text{(Subtotal Sections 1-6)} \end{array} \times \begin{array}{|c|} \hline 0.10 \\ \hline \end{array} \times \begin{array}{|c|} \hline X \\ \hline \end{array} = \begin{array}{|c|} \hline \$ 327,000 \\ \hline \end{array}$$

Contingencies

$$\begin{array}{r} \$ 3,270,000 \\ \text{(Subtotal Sections 1-6)} \end{array} \times \begin{array}{|c|} \hline 0.25 \\ \hline \end{array} \times \begin{array}{|c|} \hline X \\ \hline \end{array} = \begin{array}{|c|} \hline \$ 818,000 \\ \hline \end{array}$$

**Total Roadway Additions** \$ 1,145,000

**TOTAL ROADWAY ITEMS** \$ 4,742,000  
(Subtotal Sections 1-8)

Estimate Prepared By: Harminder Basi  
(Print Name)

Date: November 27, 2011  
Phone: 530.741.5115

Estimate Checked By: \_\_\_\_\_  
(Print Name)

Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

**II. Structures Items**

*Section Cost*

\$   
 (incl. 10% mobilization and 40% contingency)

*Subtotal Structures Items* \$

**III. Railroad Related Costs**

	<i>Quantity</i>	<i>Unit</i>	<i>Unit Price</i>	<i>Item Cost</i>	<i>Section Cost</i>
<u>Not Applicable</u>			\$ -	\$ -	
_____			\$ -	\$ -	
_____			\$ -	\$ -	
_____			\$ -	\$ -	

*Subtotal Railroad Costs* \$

**TOTAL STRUCTURES AND RAILROAD ITEMS** \$

*Subtotal Railroad Costs* \$

**TOTAL STRUCTURES AND RAILROAD ITEMS** \$

Estimate Prepared By: \_\_\_\_\_  
 (Print Name)

Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

**IV. Right of Way Escalated Value**

	<i>Item Cost</i>
Acquisition (including excess lands, damages to remainder(s) and goodwill)	\$ 11,434
Environmental Mitigation and Permits	\$ 146,349
Project Development Permit Fees	\$ 7,947
Utility Relocation (State share)	
Relocation Assistance	\$ 24,392
Clearance/Demolition	\$ -
Title and Escrow Fees	\$ -

**TOTAL RIGHT OF WAY ITEMS** \$

Anticipated Date of Right of Way Certification October 1, 2015  
 (Date to which values are escalated)

Construction Contract Work:

Brief Description of Work:

Right of Way Branch Cost Estimate for Work\* \$

\* This dollar amount is to be included in the Roadway and/or Structures items of work, as appropriate. Do not include in Right of Way items.

Estimate Prepared By: Lee Ann Lambirth  
(Print Name)

Date: November 27, 2011  
Phone: 530.741-5140

**ATTACHMENT J**  
PROGRAMMING SHEET

**PROGRAMMING SHEET - 2011/2012**

EA: 03-1e060  
Proj Name: No Nick

Project Manager: Winder Bajwa  
Co-Rte-PM: YUB-070- 016.0/

Date: 11/07/2011  
Type: SHOPP

**PROJECT SCHEDULE**

MILESTONE		DATE (STATUS)
Begin Environmental Document	M020	07/01/2012 (T)
Begin Project Report	M040	07/01/2012 (T)
Circulate Environmental Document (DED)	M120	07/01/2013 (T)
Project Approval & Environmental Document (PA&ED)	M200	01/01/2014 (T)
District Submits Bridge Site Data to Structures	M221	01/01/2014 (T)
Right of Way Maps	M224	01/01/2014 (T)
Regular Right of Way	M225	07/01/2014 (T)
District Plans, Specifications & Estimates to DOE	M377	04/01/2015 (T)
Draft Structures Plans, Specifications & Estimates	M378	03/01/2015 (T)
District Plans, Specifications & Estimates (PS&E)	M380	09/30/2015 (T)
Right of Way Certification	M410	10/01/2015 (T)
Ready to List (RTL)	M460	12/31/2015 (T)
Headquarters Advertise (HQ AD)	M480	03/01/2016 (T)
Approve Construction Contract	M500	05/31/2016 (T)
Contract Acceptance (CCA)	M600	04/16/2018 (T)
End Project	M800	04/15/2020 (T)

ESTIMATE	DATE	AMOUNT
ROADWAY	11/03/11	\$ 4750
BRIDGE	10/27/11	\$ 10970
Subtotal Const		\$ 15720
RIGHT OF WAY	09/09/11	\$ 190
MITIGATION		\$ 0
Subtotal RW		\$ 190
GRAND TOTAL		\$ 15910

EXISTING PROGRAMMING	
PAED	\$
PS&E	\$
RW - Sup	\$
RW - Cap	\$
Const - Sup	\$
Const - Cap	\$

\*Does not apply to RW Capital + Not Escalated ++ Only Escalated to 1 year into Future

**PROJECT COSTS BY SB45 CATEGORY**

CAPITAL COST ESTIMATE (Escalation Factor)	Prior Yrs+	11/12+	12/13 (3.5%)	13/14 (3.5%)	14/15 (3.5%)	15/16 (3.5%)	Future++ (3.5%)	Total	
Right of Way				47	161			\$ 209	
Construction						18039		\$ 18,039	
<b>CAPITAL COSTS TOTAL</b>								\$ 18,248	
SUPPORT COSTS (Escalation Factor)			(1.5%)	(1.5%)	(1.5%)	(1.5%)	(1.5%)		Sup/Cap
PAED		19	770	66				\$ 854	4.68%
PS&E				863	258	162		\$ 1,284	7.03%
Right of Way				32	64	24	35	\$ 155	0.85%
Construction						157	3317	\$ 3,473	19.03%
<b>SUPPORT COSTS TOTAL</b>								\$5,766	31.60%
<b>TOTAL PROJECT COSTS</b>								\$ 24,014	

**PROJECT SUPPORT IN PYS**

	Prior Yrs	11/12	12/13	13/14	14/15	15/16	Future	Total	PY %
Environmental	0.00	0.01	2.12	0.38	0.37	0.04	0.30	3.22	8.49%
Design	0.00	0.00	1.37	0.86	0.30	0.01	0.06	2.60	6.85%
Engineering Services	0.00	0.00	0.35	0.20	0.50	0.03	0.29	1.37	3.61%
Surveys	0.00	0.00	0.74	0.42	0.02	0.12	1.94	3.24	8.54%
Right of Way	0.00	0.00	0.23	0.06	0.56	0.15	0.08	1.08	2.85%
Traffic	0.00	0.00	0.05	0.37	0.33	0.01	0.03	0.79	2.08%
Construction	0.00	0.00	0.00	0.01	0.01	0.45	10.01	10.48	27.63%
Project Management	0.00	0.07	0.11	0.11	0.11	0.09	0.21	0.70	1.85%
District Units*	0.00	0.01	1.00	0.29	0.20	0.03	0.25	1.78	4.69%
<b>Subtotal Dist/Region Resources</b>	0.00	0.09	5.97	2.70	2.40	0.93	13.17	25.26	66.60%
59-DES Project Development	0.00	0.00	0.19	1.68	0.00	0.38	0.54	2.79	7.36%
59-DES Structures Foundation	0.00	0.00	0.17	1.74	0.00	0.01	0.21	2.13	5.62%
59-Office Engineer	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.36	0.95%
59-DES Project Management	0.00	0.03	0.04	0.04	0.04	0.04	0.08	0.27	0.71%
59-DES Construction	0.00	0.00	0.02	0.06	0.02	0.37	6.65	7.12	18.77%
59-DES Other Units**	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
<b>Subtotal DES Resources</b>	0.00	0.03	0.42	3.52	0.06	1.16	7.48	12.67	33.40%
<b>TOTAL PYS</b>	<b>0.00</b>	<b>0.12</b>	<b>6.39</b>	<b>6.22</b>	<b>2.46</b>	<b>2.09</b>	<b>20.65</b>	<b>37.93</b>	

\*Admin, Plng, Maintenance

\*\*DES Admin, DES Plng, DES Maintenance

HRS/PYS = 1758

Comments: